U.S. Application Serial No. 09/852,100 (Attorney Docket No. 31896-67200)

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-3 (canceled)

Claim 4 (previously presented) An isolated protein comprising the amino acid of SEQ ID NO: 2.

Claim 5 (previously presented) An isolated protein comprising the amino acid of SEQ ID NO: 2 from amino acid 68 to amino acid 269.

Claim 6 (previously presented) An isolated protein comprising the amino acid sequence encoded by the cDNA insert of clone BBP1-fl deposited under accession number ATCC 98617.

Claim 7 (previously presented) An isolated protein comprising the amino acid sequence from amino acid 185 to amino acid 217 of SEQ ID NO: 2.

Claim 8 (currently amended) A non-naturally occurring fusion protein comprising <u>amino acid</u> 185 to amino acid 217 of SEQ ID NO: 2 an amino acid sequence with homology of 90% or greater to SEQ ID NO: 2 linked to a peptide sequence.

Claims 9-33 (canceled)

Claim 34 (currently amended) The fusion protein of claim 8 wherein the protein sequence comprises comprising a human B-Amyloid Peptide (BAP).

Claim 35 (previously presented) The fusion protein of claim 34 wherein the BAP is BAP42.

Claim 36 (currently amended) The fusion protein of claim 8, wherein the protein sequence linked to SEQ ID NO: 2 comprises a hotorologous comprising a protein which is heterologous to SEQ ID NO: 2.

Claim 37 (previously presented) A fusion protein comprising the amino acid sequence of SEQ ID NO: 2 from amino acids 68 to 269 with two regions of sufficient length and hydrophobicity to transverse a cellular membrane as deposited under the accession number ATCC 98399.

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Claim 38 (previously presented) A non-naturally occurring fusion protein comprising the amino acid sequence of SEQ ID NO: 2 linked to a peptide sequence.

Claim 39 (currently amended) The fusion protein of claim 8 wherein the protein linked to SEQ ID NO: 2 comprises comprising maltose binding protein (MBP), glutathione-Stransferase (GST), or thioredoxin (TRX).

Claim 40 (new) A method for identifying compounds that modulate the binding between two proteins, comprising:

- (a) incubating a test compound in a test medium comprising a B-amyloid peptide and a protein of claim 7 under conditions effective for binding of said B-amyloid peptide to said protein of claim 7; and
- (b) comparing the binding of said ß-amyloid peptide to said protein of claim 7 in the presence and absence of said test compound, wherein increased binding designates an activator and decreased binding designates an inhibitor of said binding.
- Claim 41 (new) A recombinant protein comprising amino acid 185 to amino acid 217 of SEQ ID NO: 2.

Claim 42 (new) The recombinant protein of claim 41, comprising amino acid 68 to amino acid 269 of SEQ ID NO: 2.

Claim 43 (new) The recombinant protein of claim 41, comprising amino acid 237 to amino acid 241 of SEQ ID NO: 2.

Claim 44 (new) The recombinant protein of claim 41, comprising an ALU element.

Claim 45 (new) A method for identifying agents that modulate the binding between two proteins, comprising:

- (a) contacting an agent to a medium or platform which includes a protein of interest and a recombinant protein of claim 41; and
- (b) comparing binding of said protein of interest to said recombinant protein in the presence and absence of said agent, wherein a change in said binding indicates that said agent is a modulator of said binding.

Claim 46 (new) A recombinant protein comprising amino acid 123 to amino acid 202 of SEQ ID NO: 2.

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Claim 47 (new) A recombinant protein comprising amino acid 185 to amino acid 217 of SEQ ID NO: 2 with at least one amino acid modification at residues 199-201.

Claim 48 (new) The recombinant protein of claim 47, wherein said at least amino acid modification includes a substitution from arginine to glutamic acid at residue 200.